Bruhat Bengaluru Mahanagara Palike

Project Division, Yelahanka Zone

Name Of work : - 1.Improvements to Roads and Drains From Hegdenagar petrol bunk to MCECHS park in Ward No. 06
2.Improvement to Roads and Drains in Hegdenagar and Surrounding area in Ward No.06.
3.Improvements to Roads and Drains in Munivenkatappa Layout Nagawara in Ward No. 06.
4.Drilling of Borewells and Maintance in Ward No.06

Name of Agency :- HONNAPPA MURTHY

Bill No :- First and Final Bill

Measurments Recorded on -

SlNo	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 1.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)											
	Pre - Measurement Quantity Page no 01-05								989.16			
	Quantity Limited to								976.80			
	Quantity to Be Paid								**976.80**	**Cu-m**	**202.92**	**198,212.00**
2	Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)											
	Pre - Measurement Quantity Page no 06-07								1254.60			
	Quantity to Be Paid								**1254.60**	**Sqm**	**80.56**	**101,071.00**
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc,. Complete. 7.5cms thick As per the direction of Engineer incharge											
	Pre - Measurement Quantity Page no 08								394.20			
	Quantity to Be Paid								**394.20**	**Sqm**	**665.68**	**262,411.00**
4	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications.											
	Pre - Measurement Quantity Page no 09-11								108.63			
	Quantity to Be Paid								**108.63**	**Cum**	**5348.76**	**581,036.00**
5	Providing and Constructing precast concrete solid blocks with compressive strength not less than 3.5 Newton/sqm with cement mortor 1:4 masonry (quoin, jamb, closer blocks) with solid concrete blocks of size 40X15X20 cms confirming to I.S:2185/1965 in superstructure including cost of materials, labor charges, scaffolding, curing complete as per specifications											
	Pre - Measurement Quantity Page no 12								163.40			
	Quantity to Be Paid								**163.40**	**Sqm**	**961.42**	**157,096.00**
6	Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications.											
	Pre - Measurement Quantity Page no 13-14								57.24			
	Quantity to Be Paid								**57.24**	**Sqm**	**4438.22**	**254,044.00**
7	Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications.											
	Pre - Measurement Quantity Page no 15-16								286.20			
	Quantity Limited to								188.60			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on - 07/10/19

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	Quantity to Be Paid								188.60	Sqm	102.82	19,392.00
8	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.											
	Pre - Measurement Quantity Page no 17-19								36.90			
	Quantity to Be Paid								36.90	Cu-m	5767.46	212,819.00
11	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)											
	Road Concrete											
	1st Cross Road 7th Cross											
	0.00	10.00		1	10.00	5.40	5.50	5.45	0.15	8.18		
	10.00	20.00		1	10.00	5.50	6.20	5.85	0.15	8.78		
	20.00	27.00		1	7.00	6.20	6.40	6.30	0.15	6.62		
	2nd Cross Road 7th Cross				0.00	0.00	0.00	0.00	0.00			
	0.00	10.00		1	10.00	5.70	5.60	5.65	0.15	8.48		
	10.00	20.00		1	10.00	5.60	5.60	5.60	0.15	8.40		
	20.00	30.00		1	10.00	5.60	5.20	5.40	0.15	8.10		
	30.00	40.00		1	10.00	5.20	5.50	5.35	0.15	8.03		
	40.00	45.00		1	5.00	5.50	5.70	5.60	0.15	4.20		
	45.00	47.00		1	2.00	5.70	5.20	5.45	0.15	1.64		
									Total Quantity	**62.40**		
									Quantity Limited to	**60.00**	**Cum**	**6217.96**	**373,078.00**
12	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.											
	Road Concrete											
	1st Cross Road 7th Cross											
	0.00	10.00		1	10.00	5.40	5.50	5.45		54.50		
	10.00	20.00		1	10.00	5.50	6.20	5.85		58.50		
	20.00	27.00		1	7.00	6.20	6.40	6.30		44.10		
	2nd Cross Road 7th Cross											
	0.00	10.00		1	10.00	5.70	5.60	5.65		56.50		
	10.00	20.00		1	10.00	5.60	5.60	5.60		56.00		
	20.00	30.00		1	10.00	5.60	5.20	5.40		54.00		
	30.00	40.00		1	10.00	5.20	5.50	5.35		53.50		
	40.00	45.00		1	5.00	5.50	5.70	5.60		28.00		
	45.00	47.00		1	2.00	5.70	5.20	5.45		10.90		

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on -

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
								Total Quantity	**416.00**	**Sq-m**	**95.40**	**39,686.00**
13	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of											
	Pre - Measurement Quantity Page no 20-22								2268.18			
	Quantity Limited to								2235.25			
	Quantity to Be Paid								**2235.25**	**Cu-m**	**164.76**	**368,280.00**
14	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406											
	Pre - Measurement Quantity Page no 23-25								2135.76			
	Quantity Limited to								2085.25			
	Quantity to Be Paid								**2085.25**	**Cu-m**	**1768.08**	**3,686,889.00**
15	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW,P&IWTD SR 2016-17)											
	Pre - Measurement Quantity Page no 26-28								8656.73			
	Quantity Limited to								8341.00			
	Quantity to Be Paid								**8341.00**	**Sqm**	**27.56**	**229,878.00**
25	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)											
	Pre - Measurement Quantity Page no 29-31								7119.95			
	Quantity Limited to								7082.50			
	Quantity to Be Paid								**7082.50**	**Sq-m**	**3.18**	**22,522.00**
16	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sum, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)											
	Pre - Measurement Quantity Page no 32-38								26037.68			
	Quantity Limited to								25992.50			
	Quantity to Be Paid								**25992.50**	**Sq-m**	**12.72**	**330,625.00**
17	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth											
	Pre - Measurement Quantity Page no 39-41								513.05			
	Quantity to Be Paid								**513.05**	**Cu-m**	**7120.02**	**3,652,926.00**

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engine
Project Divisio
Velahanka Zo

Measurments Recorded on - 17/09/19

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
18	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)												
	4th Cross Road												
	0.00	5.00		1	5.00	7.70	7.50	7.60	0.04	1.52			
	5.00	15.00		1	10.00	7.50	7.10	7.30	0.04	2.92			
	15.00	30.00		1	15.00	7.10	6.70	6.90	0.04	4.14			
	30.00	45.00		1	15.00	6.70	6.90	6.80	0.04	4.08			
	45.00	60.00		1	15.00	6.90	6.90	6.90	0.04	4.14			
	60.00	75.00		1	15.00	6.90	7.00	6.95	0.04	4.17			
	75.00	90.00		1	15.00	7.00	7.30	7.15	0.04	4.29			
	90.00	105.00		1	15.00	7.30	6.20	6.75	0.04	4.05			
	105.00	120.00		1	15.00	6.20	6.20	6.20	0.04	3.72			
	120.00	135.00		1	15.00	6.20	6.50	6.35	0.04	3.81			
	135.00	150.00		1	15.00	6.50	6.70	6.60	0.04	3.96			
	150.00	165.00		1	15.00	6.70	6.80	6.75	0.04	4.05			
	165.00	180.00		1	15.00	6.80	6.90	6.85	0.04	4.11			
	180.00	195.00		1	15.00	6.90	7.00	6.95	0.04	4.17			
	195.00	210.00		1	15.00	7.00	7.00	7.00	0.04	4.20			
	210.00	225.00		1	15.00	7.00	6.80	6.90	0.04	4.14			
	225.00	238.00		1	13.00	6.80	6.80	6.80	0.04	3.54			
	238.00	246.00		0	8.00	0.00	0.00	0.00	0.04	0.00	Cross Road		
	246.00	261.00		1	15.00	6.60	6.70	6.65	0.04	3.99			
	261.00	276.00		1	15.00	6.70	6.70	6.70	0.04	4.02			
	276.00	291.00		1	15.00	6.70	6.70	6.70	0.04	4.02			
	291.00	306.00		1	15.00	6.70	6.40	6.55	0.04	3.93			
	306.00	321.00		1	15.00	6.40	6.30	6.35	0.04	3.81			
	321.00	336.00		1	15.00	6.30	6.20	6.25	0.04	3.75			
	336.00	351.00		1	15.00	6.20	6.50	6.35	0.04	3.81			
	351.00	366.00		1	15.00	6.50	6.50	6.50	0.04	3.90			
	366.00	381.00		1	15.00	6.50	6.60	6.55	0.04	3.93			
	381.00	396.00		1	15.00	6.60	6.70	6.65	0.04	3.99			
	396.00	411.00		1	15.00	6.70	7.00	6.85	0.04	4.11			
	411.00	426.00		1	15.00	7.00	7.00	7.00	0.04	4.20			
	426.00	431.00		1	5.00	7.00	7.10	7.05	0.04	1.41			
	7th Cross Road												
	0.00	4.00		1	4.00	7.80	7.60	7.70	0.04	1.23			
	4.00	10.00		1	6.00	7.60	7.40	7.50	0.04	1.80			
	10.00	16.00		1	6.00	7.40	7.00	7.20	0.04	1.73			
	16.00	30.00		1	14.00	7.00	7.00	7.00	0.04	3.92			
	30.00	45.00		1	15.00	7.00	6.80	6.90	0.04	4.14			
	45.00	60.00		1	15.00	6.80	6.70	6.75	0.04	4.05			
	60.00	67.00		1	7.00	6.70	6.70	6.70	0.04	1.88			
	67.00	84.00		1	17.00	6.70	6.70	6.70	0.04	4.56			
	84.00	99.00		1	15.00	6.70	6.80	6.75	0.04	4.05			
	99.00	114.00		1	15.00	6.80	6.80	6.80	0.04	4.08			
	114.00	129.00		1	15.00	6.80	6.80	6.80	0.04	4.08			
	129.00	144.00		1	15.00	6.80	6.90	6.85	0.04	4.11			
	144.00	159.00		1	15.00	6.90	6.90	6.90	0.04	4.14			
	159.00	170.00		1	11.00	6.90	6.80	6.85	0.04	3.01			
	170.00	176.00		1	6.00	6.80	6.70	6.75	0.04	1.62			
	176.00	191.00		1	15.00	6.70	7.20	6.95	0.04	4.17			
	191.00	206.00		1	15.00	7.20	7.50	7.35	0.04	4.41			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Velahanka Zone

Measurments Recorded on - 18/09/19

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	206.00	221.00		1	15.00	7.50	7.00	7.25	0.04	4.35			
	221.00	226.00		1	5.00	7.00	7.50	7.25	0.04	1.45			
	15th Cross Road												
	0.00	6.00		1	6.00	5.60	5.60	5.60	0.04	1.34			
	6.00	8.00		1	2.00	5.60	8.00	6.80	0.04	0.54			
	8.00	23.00		1	15.00	8.00	7.20	7.60	0.04	4.56			
	23.00	25.00		1	2.00	7.20	7.30	7.25	0.04	0.58			
	25.00	38.00		1	13.00	7.30	7.10	7.20	0.04	3.74			
	38.00	53.00		1	15.00	7.10	5.00	6.05	0.04	3.63			
	Amarjyothi Badavane (Durgamba main road)												
	0.00	15.00		1	15.00	8.80	8.40	8.60	0.04	5.16			
	15.00	30.00		1	15.00	8.40	8.50	8.45	0.04	5.07			
	30.00	45.00		1	15.00	8.50	8.00	8.25	0.04	4.95			
	45.00	60.00		1	15.00	8.00	7.80	7.90	0.04	4.74			
	60.00	75.00		1	15.00	7.80	8.00	7.90	0.04	4.74			
	75.00	90.00		1	15.00	8.00	8.40	8.20	0.04	4.92			
	90.00	105.00		1	15.00	8.40	8.20	8.30	0.04	4.98			
	105.00	120.00		1	15.00	8.20	8.40	8.30	0.04	4.98			
	120.00	135.00		1	15.00	8.40	8.20	8.30	0.04	4.98			
	135.00	150.00		1	15.00	8.20	8.00	8.10	0.04	4.86			
	150.00	165.00		1	15.00	8.00	7.30	7.65	0.04	4.59			
	165.00	180.00		1	15.00	7.30	6.70	7.00	0.04	4.20			
	180.00	195.00		1	15.00	6.70	7.30	7.00	0.04	4.20			
	195.00	210.00		1	15.00	7.30	7.90	7.60	0.04	4.56			
	210.00	225.00		1	15.00	7.90	7.90	7.90	0.04	4.74			
	225.00	240.00		1	15.00	7.90	7.90	7.90	0.04	4.74			
	240.00	255.00		1	15.00	7.90	7.80	7.85	0.04	4.71			
	255.00	270.00		1	15.00	7.80	7.80	7.80	0.04	4.68			
	270.00	285.00		1	15.00	7.80	8.50	8.15	0.04	4.89			
	285.00	300.00		1	15.00	8.50	9.20	8.85	0.04	5.31			
	300.00	315.00		1	15.00	9.20	8.80	9.00	0.04	5.40			
	315.00	323.00		1	8.00	8.80	8.40	8.60	0.04	2.75			
	323.00	330.00		1	7.00	8.40	9.00	8.70	0.04	2.44			
	330.00	345.00		1	15.00	8.40	8.70	8.55	0.04	5.13			
	345.00	360.00		1	15.00	8.70	9.60	9.15	0.04	5.49			
	360.00	375.00		1	15.00	9.60	8.50	9.05	0.04	5.43			
	375.00	390.00		1	15.00	8.50	7.60	8.05	0.04	4.83			
	390.00	405.00		1	15.00	7.60	7.50	7.55	0.04	4.53			
	405.00	420.00		1	15.00	7.50	6.10	6.80	0.04	4.08			
	420.00	435.00		1	15.00	6.10	6.30	6.20	0.04	3.72			
	435.00	448.30		1	13.30	6.30	6.40	6.35	0.04	3.38			
	Cross Road Near Indhira Canteen Hegdenagar												
	0.00	5.00		1	5.00	6.70	7.10	6.90	0.04	1.38			
	5.00	20.00		1	15.00	7.10	6.90	7.00	0.04	4.20			
	20.00	30.00		1	10.00	6.90	7.10	7.00	0.04	2.80			
	30.00	45.00		1	15.00	7.10	6.90	7.00	0.04	4.20			
	45.00	60.00		1	15.00	6.90	7.10	7.00	0.04	4.20			
	60.00	75.00		1	15.00	7.10	7.70	7.40	0.04	4.44			
	75.00	90.00		1	15.00	7.70	8.80	8.25	0.04	4.95			
	90.00	105.00		1	15.00	8.80	4.50	6.65	0.04	3.99			
	105.00	120.00		1	15.00	4.50	4.50	4.50	0.04	2.70			
	120.00	127.00		1	7.00	4.50	5.20	4.85	0.04	1.36			
	127.00	142.00		1	15.00	5.20	6.50	5.85	0.04	3.51			
	142.00	157.00		1	15.00	6.50	6.30	6.40	0.04	3.84			
	157.00	172.00		1	15.00	6.30	5.80	6.05	0.04	3.63			
	172.00	183.00		1	11.00	5.80	8.10	6.95	0.04	3.06			

Consultants

Contractor

Assistant Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone

Measurments Recorded on - 20/09/19

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	Cross Road Near Indhira Canteen Hegdenagar												
	0.00	15.00		1	15.00	7.00	6.20	6.60	0.04	3.96			
	15.00	30.00		1	15.00	6.20	6.60	6.40	0.04	3.84			
	30.00	45.00		1	15.00	6.60	6.80	6.70	0.04	4.02			
	45.00	60.00		1	15.00	6.80	6.80	6.80	0.04	4.08			
	60.00	75.00		1	15.00	6.80	6.00	6.40	0.04	3.84			
	75.00	90.00		1	15.00	6.00	5.90	5.95	0.04	3.57			
	90.00	105.00		1	15.00	5.90	6.20	6.05	0.04	3.63			
	105.00	120.00		1	15.00	6.20	6.10	6.15	0.04	3.69			
	120.00	135.00		1	15.00	6.10	6.00	6.05	0.04	3.63			
	135.00	150.00		1	15.00	6.00	5.75	5.88	0.04	3.53			
	150.00	165.00		1	15.00	5.75	5.75	5.75	0.04	3.45			
	165.00	180.00		1	15.00	5.75	5.05	5.40	0.04	3.24			
	180.00	195.00		1	15.00	5.05	5.00	5.03	0.04	3.02			
	195.00	210.00		1	15.00	5.00	5.10	5.05	0.04	3.03			
	210.00	225.00		1	15.00	5.10	5.05	5.08	0.04	3.05			
	225.00	240.00		1	15.00	5.05	5.05	5.05	0.04	3.03			
	240.00	247.00		1	7.00	5.05	5.45	5.25	0.04	1.47			
	247.00	262.00		1	15.00	5.45	5.60	5.53	0.04	3.32			
	262.00	277.00		1	15.00	5.60	5.60	5.60	0.04	3.36			
	277.00	295.00		1	18.00	5.60	5.60	5.60	0.04	4.03			
	295.00	310.00		1	15.00	5.20	5.20	5.20	0.04	3.12			
	310.00	325.00		1	15.00	5.20	5.30	5.25	0.04	3.15			
	325.00	340.00		1	15.00	5.30	5.20	5.25	0.04	3.15			
	340.00	355.00		1	15.00	5.20	5.20	5.20	0.04	3.12			
	355.00	370.00		1	15.00	5.20	5.10	5.15	0.04	3.09			
	370.00	385.00		1	15.00	5.10	5.00	5.05	0.04	3.03			
	385.00	400.00		1	15.00	5.00	5.40	5.20	0.04	3.12			
	400.00	415.00		1	15.00	5.40	5.50	5.45	0.04	3.27			
	415.00	430.00		1	15.00	5.50	5.30	5.40	0.04	3.24			
	430.00	445.00		1	15.00	5.30	5.90	5.60	0.04	3.36			
	445.00	460.00		1	15.00	5.90	5.80	5.85	0.04	3.51			
	460.00	475.00		1	15.00	5.80	5.50	5.65	0.04	3.39			
	475.00	490.00		1	15.00	5.50	5.50	5.50	0.04	3.30			
	490.00	505.00		1	15.00	5.50	5.00	5.25	0.04	3.15			
	505.00	520.00		1	15.00	5.00	5.50	5.25	0.04	3.15			
	520.00	535.00		1	15.00	5.50	5.30	5.40	0.04	3.24			
	535.00	550.00		1	15.00	5.30	5.50	5.40	0.04	3.24			
	550.00	565.00		1	15.00	5.50	5.50	5.50	0.04	3.30			
	565.00	580.00		1	15.00	5.50	5.70	5.60	0.04	3.36			
	580.00	595.00		1	15.00	5.70	5.70	5.70	0.04	3.42			
	595.00	610.00		1	15.00	5.70	5.80	5.75	0.04	3.45			
	610.00	622.00		1	12.00	5.80	5.30	5.55	0.04	2.66			
	8th Cross Road												
	0.00	15.00		1	15.00	6.50	6.50	6.50	0.04	3.90			
	15.00	30.00		1	15.00	6.50	5.40	5.95	0.04	3.57			
	30.00	45.00		1	15.00	5.40	6.20	5.80	0.04	3.48			
	45.00	60.00		1	15.00	6.20	5.30	5.75	0.04	3.45			
	60.00	75.00		1	15.00	5.30	5.30	5.30	0.04	3.18			
	75.00	90.00		1	15.00	5.30	5.30	5.30	0.04	3.18			
	90.00	105.00		1	15.00	5.30	5.30	5.30	0.04	3.18			
	105.00	120.00		1	15.00	5.30	5.30	5.30	0.04	3.18			
	120.00	135.00		1	15.00	5.30	5.30	5.30	0.04	3.18			
	135.00	150.00		1	15.00	5.30	6.00	5.65	0.04	3.39			
	150.00	165.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	165.00	180.00		1	15.00	6.00	5.30	5.65	0.04	3.39			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer
Asst. Executive Engr
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on - 24/09/19

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	180.00	195.00		1	15.00	5.30	4.70	5.00	0.04	3.00			
	195.00	210.00		1	15.00	4.70	5.50	5.10	0.04	3.06			
	Arch Road (Hegde Nagar)												
	0.00	15.00		1	15.00	5.70	5.40	5.55	0.04	3.33			
	15.00	30.00		1	15.00	5.40	6.00	5.70	0.04	3.42			
	30.00	45.00		1	15.00	6.00	5.80	5.90	0.04	3.54			
	45.00	60.00		1	15.00	5.80	5.90	5.85	0.04	3.51			
	60.00	75.00		1	15.00	5.90	6.00	5.95	0.04	3.57			
	75.00	90.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	90.00	105.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	105.00	120.00		1	15.00	6.00	6.00	6.00	0.04	3.60			
	120.00	122.00		1	2.00	6.00	6.00	6.00	0.04	0.48			
	2nd B Cross Road (New Shanthinagar, Hegdenagar)												
	0.00	15.00		1	15.00	5.80	5.85	5.83	0.04	3.50			
	15.00	30.00		1	15.00	5.85	5.80	5.83	0.04	3.50			
	30.00	45.00		1	15.00	5.80	5.85	5.83	0.04	3.50			
	45.00	55.00		1	10.00	5.85	5.80	5.83	0.04	2.33			
	3rd Cross Road (New Shanthinagar, Hegdenagar)												
	0.00	15.00		1	15.00	5.30	4.20	4.75	0.04	2.85			
	15.00	30.00		1	15.00	4.20	4.50	4.35	0.04	2.61			
	30.00	45.00		1	15.00	4.50	3.80	4.15	0.04	2.49			
	45.00	60.00		1	15.00	3.80	4.80	4.30	0.04	2.58			
	60.00	75.00		1	15.00	4.80	4.60	4.70	0.04	2.82			
	75.00	90.00		1	15.00	4.60	4.40	4.50	0.04	2.70			
	90.00	105.00		1	15.00	4.40	4.50	4.45	0.04	2.67			
	105.00	115.00		1	10.00	4.50	5.80	5.15	0.04	2.06			
									Total Quantity	**631.07**			
									Quantity Limited to	**629.22**	**Cu-m**	**8118.54**	**5,108,348.00**
19	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185,												
	4th Cross Road												
		Edge line		2	418.00			0.10	--	83.60			
	7th Cross Road												
		Edge line		2	206.00			0.10	--	41.20			
	Amarjyothi Badavane(Durgamba Main Road)												
		Edge line		2	448.30			0.10		89.66			
	15th Cross Road												
		Edge line		2	53.00			0.10	--	10.60			
	Cross Road Near Indhira Canteen Hegdenagar												
		Edge line		2	622.00			0.10	--	124.40			
		Center Line		0.5	295.00			0.10	--	14.75			
	Cross Road Near Indhira Canteen Hegdenagar												
		Edge line		2	183.00			0.10	--	36.60			
	8th Cross Road												
		Edge line		2	210.00			0.10	--	42.00			
									Total Quantity	**442.81**	**Sq-m**	**542.72**	**240,322.00**
20	Removing and resetting of footpath slab (P.No.265, I.No.37.56 of PW, P&IWTD SR 2016-17)												
	4th Cross Road												

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer

Project Division

Yelahanka Zone

Bangalore

Measurments Recorded on -

BOQ Item	Description / Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	LHS												
	0.00	10.00	L/S	1	10.00			0.90		9.00			
	10.00	25.00	L/S	1	15.00			0.90		13.50			
	25.00	40.00	L/S	1	15.00			0.90		13.50			
	40.00	55.00	L/S	1	15.00			0.90		13.50			
	55.00	70.00	L/S	1	15.00			0.90		13.50			
	70.00	85.00	L/S	1	15.00			0.90		13.50			
	85.00	100.00	L/S	1	15.00			0.90		13.50			
	100.00	115.00	L/S	1	15.00			0.90		13.50			
	115.00	130.00	L/S	1	15.00			0.90		13.50			
	130.00	145.00	L/S	1	15.00			0.90		13.50			
	145.00	160.00	L/S	1	15.00			0.90		13.50			
	160.00	175.00	L/S	1	15.00			0.90		13.50			
	175.00	190.00	L/S	1	15.00			0.90		13.50			
	190.00	205.00	L/S	1	15.00			0.90		13.50			
	205.00	220.00	L/S	1	15.00			0.90		13.50			
	220.00	235.00	L/S	1	15.00			0.90		13.50			
	235.00	238.00	L/S	1	3.00			0.90		2.70			
	RHS												
	0.00	5.00	R/S	1	5.00			0.90		4.50			
	5.00	20.00	R/S	1	15.00			0.90		13.50			
	20.00	35.00	R/S	1	15.00			0.90		13.50			
	35.00	50.00	R/S	1	15.00			0.90		13.50			
	50.00	65.00	R/S	1	15.00			0.90		13.50			
	65.00	80.00	R/S	1	15.00			0.90		13.50			
	80.00	95.00	R/S	1	15.00			0.90		13.50			
	95.00	110.00	R/S	1	15.00			0.90		13.50			
	110.00	125.00	R/S	1	15.00			0.90		13.50			
	125.00	140.00	R/S	1	15.00			0.90		13.50			
	140.00	155.00	R/S	1	15.00			0.90		13.50			
	155.00	170.00	R/S	1	15.00			0.90		13.50			
	170.00	185.00	R/S	1	15.00			0.90		13.50			
	185.00	200.00	R/S	1	15.00			0.90		13.50			
	200.00	215.00	R/S	1	15.00			0.90		13.50			
	215.00	230.00	R/S	1	15.00			0.90		13.50			
	230.00	238.00	R/S	1	8.00			0.90		7.20			
	7th Cross Road												
	LHS												
	0.00	5.00	L/S	1	5.00			0.90		4.50			
	5.00	20.00	L/S	1	15.00			0.90		13.50			
	20.00	35.00	L/S	1	10.00			0.90		9.00			
	35.00	50.00	L/S	1	15.00			0.90		13.50			
	50.00	65.00	L/S	1	15.00			0.90		13.50			
	65.00	80.00	L/S	1	8.00			0.90		7.20			
	80.00	95.00	L/S	1	15.00			0.90		13.50			
	95.00	110.00	L/S	1	10.00			0.90		9.00			
	110.00	125.00	L/S	1	6.00			0.90		5.40			
	125.00	140.00	L/S	1	15.00			0.90		13.50			
	140.00	155.00	L/S	1	15.00			0.90		13.50			
	155.00	170.00	L/S	1	10.00			0.90		9.00			
	170.00	185.00	L/S	1	15.00			0.90		13.50			
	185.00	200.00	L/S	1	15.00			0.90		13.50			
	200.00	215.00	L/S	1	15.00			0.90		13.50			
	215.00	220.00	L/S	1	5.00			0.90		4.50			
	220.00	226.00	L/S	1	6.00			0.90		5.40			
	RHS												
	0.00	5.00	R/S	1	5.00			0.90		4.50			
	5.00	20.00	R/S	1	15.00			0.90		13.50			
	20.00	35.00	R/S	1	10.00			0.90		9.00			
	35.00	50.00	R/S	1	15.00			0.90		13.50			
	50.00	65.00	R/S	1	15.00			0.90		13.50			
	65.00	80.00	R/S	1	8.00			0.90		7.20			
	80.00	95.00	R/S	1	15.00			0.90		13.50			
	95.00	110.00	R/S	1	10.00			0.90		9.00			
	110.00	125.00	R/S	1	6.00			0.90		5.40			
	125.00	140.00	R/S	1	15.00			0.90		13.50			
	140.00	155.00	R/S	1	15.00			0.90		13.50			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engin

Asst. Executive Engi

Project Division

Yelahanka Zone

Bangalore

Measurments Recorded on - 27/06/19

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	155.00	170.00	R/S	1	10.00			0.90		9.00			
	170.00	185.00	R/S	1	15.00			0.90		13.50			
	185.00	200.00	R/S	1	15.00			0.90		13.50			
	200.00	215.00	R/S	1	15.00			0.90		13.50			
	215.00	220.00	R/S	1	5.00			0.90		4.50			
	220.00	226.00	R/S	1	6.00			0.90		5.40			
	5th Cross Road												
	LHS												
	0.00	15.00	L/S	1	15.00			0.90		13.50			
	15.00	30.00	L/S	1	15.00			0.90		13.50			
	30.00	45.00	L/S	1	15.00			0.90		13.50			
	45.00	60.00	L/S	1	15.00			0.90		13.50			
	60.00	75.00	L/S	1	8.00			0.90		7.20			
	75.00	90.00	L/S	1	10.00			0.90		9.00			
								Total Quantity		849.60	Sqm	132.50	112,572.00
21	Providing and fixing **RCC Precast cover slab of 100mm thick** for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)												
	4th Cross Road												
	RHS												
	246.00	261.00	R/S	1	15.00			0.90		13.50			
	261.00	276.00	R/S	1	15.00			0.90		13.50			
	276.00	291.00	R/S	1	8.00			0.90		7.20			
	291.00	306.00	R/S	1	10.00			0.90		9.00			
	306.00	321.00	R/S	1	9.00			0.90		8.10			
	321.00	336.00	R/S	1	7.00			0.90		6.30			
	336.00	351.00	R/S	1	10.00			0.90		9.00			
	351.00	366.00	R/S	1	5.00			0.90		4.50			
	366.00	381.00	R/S	1	5.00			0.90		4.50			
	381.00	396.00	R/S	1	8.00			0.90		7.20			
	396.00	411.00	R/S	1	4.00			0.90		3.60			
	411.00	426.00	R/S	1	9.00			0.90		8.10			
	5th Cross Road												
	LHS												
	90.00	105.00	L/S	1	15.00			0.90		13.50			
	105.00	120.00	L/S	1	15.00			0.90		13.50			
	120.00	135.00	L/S	1	15.00			0.90		13.50			
	165.00	180.00	L/S	1	15.00			0.90		13.50			
	225.00	235.00	L/S	1	10.00			0.90		9.00			
	235.00	242.00	L/S	0	7.00			0.90		0.00	Cross Road		
	242.00	257.00	L/S	1	15.00			0.90		13.50			
	287.00	302.00	L/S	1	15.00			0.90		13.50			
	332.00	347.00	L/S	1	10.00			0.90		9.00			
	347.00	362.00	L/S	1	15.00			0.90		13.50			
	362.00	377.00	L/S	1	15.00			0.90		13.50			
	377.00	392.00	L/S	1	15.00			0.90		13.50			
	392.00	407.00	L/S	1	15.00			0.90		13.50			
	RHS												
	0.00	15.00	R/S	1	15.00			0.90		13.50			
	15.00	30.00	R/S	1	10.00			0.90		9.00			
	120.00	135.00	R/S	1	15.00			0.90		13.50			
	135.00	150.00	R/S	1	15.00			0.90		13.50			
	180.00	195.00	R/S	1	15.00			0.90		13.50			
	195.00	210.00	R/S	1	10.00			0.90		9.00			
	210.00	225.00	R/S	1	15.00			0.90		13.50			
	225.00	235.00	R/S	1	10.00			0.90		9.00			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on - 25/10/19

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	180.00	195.00	R/S	1	15.00				/0.45	33.00			
	235.00	242.00	R/S	0	7.00				/0.45	0.00	Cross Road		
	287.00	302.00	R/S	1	15.00				/0.45	33.00			
	392.00	407.00	R/S	1	15.00				/0.45	33.00			
	407.00	435.00	R/S	1	28.00				/0.45	62.00			
	7th Cross Road												
	LHS												
	110.00	125.00	L/S	1	15.00				/0.45	33.00			
	155.00	170.00	L/S	1	15.00				/0.45	33.00			
	170.00	185.00	L/S	1	15.00				/0.45	33.00			
	185.00	200.00	L/S	1	15.00				/0.45	33.00			
	200.00	215.00	L/S	1	15.00				/0.45	33.00			
	215.00	220.00	L/S	1	5.00				/0.45	11.00			
	220.00	226.00	L/S	1	6.00				/0.45	13.00			
	RHS												
	50.00	65.00	R/S	1	15.00				/0.45	33.00			
	65.00	80.00	R/S	1	15.00				/0.45	33.00			
	155.00	170.00	R/S	1	15.00				/0.45	33.00			
	170.00	185.00	R/S	1	15.00				/0.45	33.00			
	185.00	200.00	R/S	1	15.00				/0.45	33.00			
									/0.45	33.00			
								Total Quantity		**1770.00**	**S-qm**	**65.72**	**116,324.00**
23	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. (P.No.25,												
	4th Cross Road												
	RHS												
	246.00	261.00	R/S	1	15.00				/0.45	33.00			
	261.00	276.00	R/S	1	15.00				/0.45	33.00			
	276.00	291.00	R/S	1	15.00				/0.45	33.00			
	291.00	306.00	R/S	1	15.00				/0.45	33.00			
	306.00	321.00	R/S	1	15.00				/0.45	33.00			
	321.00	336.00	R/S	1	15.00				/0.45	33.00			
	336.00	351.00	R/S	1	15.00				/0.45	33.00			
	351.00	366.00	R/S	1	15.00				/0.45	33.00			
	366.00	381.00	R/S	1	15.00				/0.45	33.00			
	381.00	396.00	R/S	1	15.00				/0.45	33.00			
	396.00	411.00	R/S	1	15.00				/0.45	33.00			
	411.00	426.00	R/S	1	15.00				/0.45	33.00			
	4th Cross Road												
	LHS												
	0.00	10.00	L/S	1	10.00				/0.45	22.00			
	10.00	25.00	L/S	1	15.00				/0.45	33.00			
	25.00	40.00	L/S	1	15.00				/0.45	33.00			
	85.00	100.00	L/S	1	15.00				/0.45	33.00			
	100.00	115.00	L/S	1	15.00				/0.45	33.00			
	115.00	130.00	L/S	1	15.00				/0.45	33.00			
	130.00	145.00	L/S	1	15.00				/0.45	33.00			
	145.00	160.00	L/S	1	15.00				/0.45	33.00			
	220.00	235.00	L/S	1	15.00				/0.45	33.00			
	235.00	238.00	L/S	1	3.00				/0.45	7.00			
	238.00	246.00	L/S	0	8.00				/0.45	0.00	**Cross Road**		
	351.00	366.00	L/S	1	15.00				/0.45	33.00			
	366.00	381.00	L/S	1	15.00				/0.45	33.00			
	381.00	396.00	L/S	1	15.00				/0.45	33.00			
	396.00	411.00	L/S	1	15.00				/0.45	33.00			
	411.00	431.00	L/S	1	20.00				/0.45	44.00			
	RHS												
	0.00	5.00	R/S	1	5.00				/0.45	11.00			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on - 04/11/19.

BOQ Item	Description Chainage		Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	5.00	20.00	R/S	1	15.00				/0.45	33.00			
	80.00	95.00	R/S	1	15.00				/0.45	33.00			
	95.00	110.00	R/S	1	15.00				/0.45	33.00			
	110.00	125.00	R/S	1	15.00				/0.45	33.00			
	140.00	155.00	R/S	1	15.00				/0.45	33.00			
	200.00	215.00	R/S	1	15.00				/0.45	33.00			
	215.00	230.00	R/S	1	15.00				/0.45	33.00			
	5th Cross Road												
	LHS												
	0.00	15.00	L/S	1	15.00				/0.45	33.00			
	150.00	165.00	L/S	1	15.00				/0.45	33.00			
	165.00	180.00	L/S	1	15.00				/0.45	33.00			
	180.00	195.00	L/S	1	15.00				/0.45	33.00			
	287.00	302.00	L/S	1	15.00				/0.45	33.00			
	347.00	362.00	L/S	1	15.00				/0.45	33.00			
	362.00	377.00	L/S	1	15.00				/0.45	33.00			
	377.00	392.00	L/S	1	15.00				/0.45	33.00			
	392.00	407.00	L/S	1	15.00				/0.45	33.00			
	RHS												
	0.00	15.00	R/S	1	15.00				/0.45	33.00			
	15.00	30.00	R/S	1	15.00				/0.45	33.00			
	60.00	75.00	R/S	1	15.00				/0.45	33.00			
	75.00	90.00	R/S	1	15.00				/0.45	33.00			
	302.00	317.00	R/S	1	15.00				/0.45	33.00			
	317.00	332.00	R/S	1	15.00				/0.45	33.00			
	332.00	347.00	R/S	1	15.00				/0.45	33.00			
	347.00	362.00	R/S	1	15.00				/0.45	33.00			
	362.00	377.00	R/S	1	15.00				/0.45	33.00			
	377.00	392.00	R/S	1	15.00				/0.45	33.00			
	7th Cross Road												
	LHS												
	0.00	5.00	L/S	1	5.00				/0.45	11.00			
	5.00	20.00	L/S	1	15.00				/0.45	33.00			
	20.00	35.00	L/S	1	15.00				/0.45	33.00			
	35.00	50.00	L/S	1	15.00				/0.45	33.00			
	50.00	65.00	L/S	1	15.00				/0.45	33.00			
	65.00	80.00	L/S	1	15.00				/0.45	33.00			
	80.00	95.00	L/S	1	15.00				/0.45	33.00			
	95.00	110.00	L/S	1	15.00				/0.45	33.00			
	125.00	140.00	L/S	1	15.00				/0.45	33.00			
	140.00	155.00	L/S	1	15.00				/0.45	33.00			
	RHS												
	0.00	5.00	R/S	1	5.00				/0.45	11.00			
	5.00	20.00	R/S	1	15.00				/0.45	33.00			
	20.00	35.00	R/S	1	15.00				/0.45	33.00			
	35.00	50.00	R/S	1	15.00				/0.45	33.00			
	80.00	95.00	R/S	1	15.00				/0.45	33.00			
	95.00	110.00	R/S	1	15.00				/0.45	33.00			
	110.00	125.00	R/S	1	15.00				/0.45	33.00			
	125.00	140.00	R/S	1	15.00				/0.45	33.00			
	140.00	155.00	R/S	1	15.00				/0.45	33.00			
								Total Quantity		2317.00	No's	331.78	768,734.00
24	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.182, I.No. 24.1 of PW,P&IWTD SR 2016-17)												
	4th Cross Road												
	LHS												
	0.00	10.00	L/S	1	10.00			--	0.35	3.50			
	10.00	25.00	L/S	1	15.00			--	0.35	5.25			
	25.00	40.00	L/S	1	15.00			--	0.35	5.25			
	40.00	55.00	L/S	1	15.00			--	0.35	5.25			
	55.00	70.00	L/S	1	15.00			--	0.35	5.25			
	70.00	85.00	L/S	1	15.00			--	0.35	5.25			

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer
Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on -

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
27	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13. **0 to 50 m**											
	Pre - Measurement Quantity Page no 43								200.00			
	Quantity to Be Paid								**200.00**	**Rmtr**	**315.18**	**63,036.00**
28	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13. **50 to 100 M**											
	Pre - Measurement Quantity Page no 44								200.00			
	Quantity to Be Paid								**200.00**	**Rmtr**	**412.00**	**82,400.00**
29	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13..**100 to 150M**											
	Pre - Measurement Quantity Page no 45								200.00			
	Quantity to Be Paid								**200.00**	**Rmtr**	**458.35**	**91,670.00**
30	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13.**150 to 200 M**											
	Pre - Measurement Quantity Page no 46								200.00			
	Quantity to Be Paid								**200.00**	**Rmtr**	**484.10**	**96,820.00**
31	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13.**200 to 250 M**											
	Pre - Measurement Quantity Page no 47								200.00			
	Quantity to Be Paid								**200.00**	**Rmtr**	**560.32**	**112,064.00**

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on -

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
32	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) Page no. 46 / I. 9.1 PRED SR 2012-13.**250 to 300 M**											
	Pre - Measurement Quantity Page no 48								209.00			
	Quantity Limited to								200.00			
	Quantity to Be Paid								**200.00**	Rmtr	600.49	120,098.00
33	Supply of ISI mark 175 mm nominal bore medium black ERW casing pipe of 5 mm thick black electric resistance continuous welded mild steel tube material confirming to IS 1387 / 1993 & manufactured from hot rolled steel skelp / stripes in random length of 4 to 7 mts both ends threaded confirming to IS 554 / 1985, one end fixed with a socket and the other and with a plastic protection end (including of all taxes) SE PRED III NO 84											
	Pre - Measurement Quantity Page no 49								238.00			
	Quantity to Be Paid								**238.00**	Rmtr	1325.00	315,350.00
34	Providing 250mm dia PVC Pipe BWSSB SR 16-17 PNO 57 SL NO 11											
	Pre - Measurement Quantity Page no 50								60.00			
	Quantity to Be Paid								**60.00**	Nos	1144.00	68,640.00
35	Providing 175mm dia ms casing cap page no III it no 85 pred 12-13 sr											
	Pre - Measurement Quantity Page no 51								4.00			
	Quantity to Be Paid								**4.00**	Nos	100.00	400.00
36	Providing MS Casing pipe collars page no III it no 86 pred 12-13 sr											
	Pre - Measurement Quantity Page no 52								35.00			
	Quantity to Be Paid								**35.00**	Nos	150.00	5,250.00
37	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings . PAGE NO XXXXII 12.5 HP. 30 Stage (Reversa Rate)											
	Pre - Measurement Quantity Page no 53								4.00			
	Quantity to Be Paid								**4.00**	Nos	74300.00	297,200.00
38	. KSRB13-3.1: Providing and fixing to wall celling and floor glavanised/ mild steel tubes (medium grade 1.27 kg /mt) B class 50 mm dia nominal bore with all fittings (earth work in trenches to be measured and paid for separately) including cost of all materials, labour charges, HOM of equipments and testing complete as per specifications. (Page 90 ITEM NO 13.6)											
	Pre - Measurement Quantity Page no 54								1150.00			
	Quantity to Be Paid								**1150.00**	Nos	525.30	604095.00

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on -

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
39	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and Powder coated extrued PVC sheathed suitable for working voltage upto 1100 Volts as per IS - 694 ; 1990 AND CONFORMING TO gtp OFGROUP A P. No. 12/ I No. (2.10.4) 3cx 6.0 Sqm KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 55								2380.00			
	Quantity to Be Paid								**2380.00**	Rmtr	**188.70**	**449,106.00**
40	Labour charges for erection of new/ repaired submersible pumpset along with gi pipes inculding transportion each length pno 558 ino 3 bwssb sr 14-15											
	Pre - Measurement Quantity Page no 56								191.67			
	Quantity to Be Paid								**191.67**	Each	**88.00**	**16,867.00**
41	Supplying and flush polished wood board with out front frount plank made of not less than 15mm thick plank after due groove cutting Finishing with necessary on fixing the same to the wall using tapered inverted wooden plugs screws etc., P No. 44No.6.6.6 KPWD Electrical SR 2014-15											
	Vidya Sagar Main Road		1						1.00			
	Andra Bank Kaveri Nagar		1						1.00			
	Railway Parallal Road		1						1.00			
	Chikkajala Police Station		1						1.00			
								Total Quantity	**4.00**	No	**302.00**	**1,208.00**
42	Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,stirp confirming IS 3975;1990 AND extruded PVC outer sheathing armoured cable IS 1554 part 1;1998 and confirming to GTP of group.P No.55/ I No.7.4.4 (4 core 16 Sqmm) KPWD Electrical SR 2014-15											
	Vidya Sagar Main Road		1	35.00					35.00			
	Andra Bank Kaveri Nagar		1	35.00					35.00			
	Railway Parallal Road		1	35.00					35.00			
	Chikkajala Police Station		1	35.00					35.00			
								Total Quantity	**140.00**	Rmtr	**140.40**	**19,656.00**
43	Labour charges for laying of 1.1 K.V class UG cable, P No. 61 / I No. 7.8.1 In existing trencg/duct 6Sqmm to 16 Sqmm) KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 57								132.00			
	Quantity to Be Paid								**132.00**	Rmtr	**10.80**	**1,426.00**
44	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., completeP No. 62/ I. No.7.9.4 KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 58								132.00			
	Quantity to Limited to								120.00			
	Quantity to Be Paid								**120.00**	Rmtr	**117.00**	**14,040.00**
45	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class P. No. 62/ I No.7.12.1 KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 59								12.00			
	Quantity to Be Paid								**12.00**		**345.00**	**4,140.00**

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on -

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
46	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc., P. No.62/ I No. 7.13.2 KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 60								4.00			
	Quantity to Be Paid								**4.00**	**No**	**280.00**	**1,120.00**
47	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, (P No.55, I No. 7.1) KPWD Electrical SR 2014-15											
	Vidya Sagar Main Road	1							1.00			
	Andra Bank Kaveri Nagar	1							1.00			
	Railway Parallal Road	1							1.00			
	Chikkajala Police Station	1							1.00			
								Total Quantity	**4.00**	**No**	**2727.00**	**10,908.00**
48	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc., complete.... P No44/I No 6.7.4 KPWD Electrical SR 2014-15											
	Vidya Sagar Main Road	1	3.00						3.00			
	Andra Bank Kaveri Nagar	1	3.00						3.00			
	Railway Parallal Road	1	3.00						3.00			
	Chikkajala Police Station	1	3.00						3.00			
								Total Quantity	**12.00**	**Each**	**360.00**	**4,320.00**
49	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... P No62 I No 7.14.2 KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 61								24.00			
	Quantity to Be Paid								**24.00**	**Each**	**86.00**	**2,064.00**
50	Supplying and fixing of heavy duty glands for ug cable 1.1 kv etc., complete.... P No62 I No 7.14.2 KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 62								24.00			
	Quantity to Be Paid								**24.00**	**Each**	**86.00**	**2,064.00**
51	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 32 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications pno 47 IT 6.16.5 KPWD Electrical SR 2014-15											
	Vidya Sagar Main Road	1							1.00			
	Andra Bank Kaveri Nagar	1							1.00			
	Railway Parallal Road	1							1.00			
	Chikkajala Police Station	1							1.00			
								Total Quantity	**4.00**	**Each**	**1547.00**	**6,188.00**

Consultants

Contractor

Assistant Engineer

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
	Measurments Recorded on -											
52	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 P.No. 49, I. No.6.40.2 KPWD Electrical SR 2014-15											
	Pre - Measurement Quantity Page no 63								184000.00			
	Quantity to Be Paid								**184000.00**	**Sqcm**	**0.33**	**60,720.00**
53	KSRB 13-7.1-4: Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments with all leads complete as per specifications NO KBS 13.2.16 / 13.13 Page No.90 Item No. 13.55 / PWD SR 2016-17											
	Pre - Measurement Quantity Page no 64								4.00			
	Quantity to Be Paid								**4.00**	**No**	**1540.88**	**6,164.00**
54	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc., complete. P. No.92/ I. No. 13.81.3 PWD SR											
	Pre - Measurement Quantity Page no 65								12.00			
	Quantity to Be Paid								**12.00**	**No**	**221.45**	**2,657.00**
55	Gate value 50 mm nominal bore gun metal P. No.xxiii sl No. 673 PWD SR											
	Pre - Measurement Quantity Page no 66								12.00			
	Quantity to Be Paid								**12.00**	**No**	**1650.00**	**19,800.00**
56	NIPPLE 50 mm nominal bore gun metal P. No.xxXIXiii FITTINGS PWD SR											
	Pre - Measurement Quantity Page no 67								4.00			
	Quantity to Be Paid								**4.00**	**No**	**104.30**	**417.00**
57	S BEND 50 mm nominal bore gun metal P. No.xxXIXiii FITTINGS PWD SR											
	Pre - Measurement Quantity Page no 68								12.00			
	Quantity to Be Paid								**12.00**	**No**	**219.00**	**2,628.00**
58	TEE 50 mm nominal bore gun metal P. No.xxXIXiii FITTINGS PWD SR											
	Pre - Measurement Quantity Page no 69								4.00			
	Quantity to Be Paid								**4.00**	**No**	**169.00**	**676.00**
59	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. PRED Bangalore Circle SE Approved Date 30.07.2010 15HP to 30 HP Star Delta Starter											
	Pre - Measurement Quantity Page no 70								4.00			
	Quantity to Be Paid								**4.00**	**No**	**10000**	**40,000.00**

Consultants

Contractor

Assistant Engineer 20/2/19

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

Measurments Recorded on - 13/12/19 to 20/12/19

BOQ Item	Description / Chainage	Side	Nos	L	B1	B2	Avg width	Depth	Quantity	Remarks	Rate	Amount
60	Earth work excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, in ordinary soil, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications .(P.No.5, I.No.2.1) (SR of PWD)											
	Pre - Measurement Quantity Page no 71								540.00			
	Quantity to Be Paid								**540.00**	**Cum**	**162**	**87,480.00**
61	Providing and installing at site of work pvc pipes including cost of pipes and special and labour including lowering into trenches laying true to line level and prefect linking at joints, leak proof including jointing of approved type with all labour and lift charges handling charges including encasing the pipes all round to a depth not less than 15 cms with gravel or selected earth available from the excavation etc. complete PVC pipe of 6kg/cm2 75 mm (0.662) (Page no.13, Item No.7.1.5) (kuws and db)											
	Pre - Measurement Quantity Page no 72								1200.00			
	Quantity to Be Paid								**1200.00**	**Mtrs**	**132**	**158,400.00**
62	KSRB 2.3 : Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms in depth, compacting each deposited layer by ramming after watering with a lead upto 50m and lift upto 1.5m including cost of all labour complete as per specifications Specification No.KBS 2.1 .(Page No.6, Item No. 2.10)											
	Pre - Measurement Quantity Page no 73								540.00			
	Quantity to Be Paid								**540.00**	**Each**	**95.00**	**51,300.00**
63	BESCOM Deposit											
	Vidya Sagar Main Road		1						1.00			
	Andra Bank Kaveri Nagar		1						1.00			
	Railway Parallal Road		1						1.00			
	Chikkajala Police Station		1						1.00			
								Total Quantity	**4.00**	**Nos**	**14000.00**	**56,000.00**
											Grand Total	**20,453,006.00**

20453006.00

Consultants

Contractor

Assistant Engineer 20/12/19

Assistant Executive Engineer

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore